



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FILE

M023/059

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May 17, 2000

CERTIFIED RETURN RECEIPT
Z 403 013 807

Bruce Evans
Nephi Sandstone Corporation
1250 North 200 West
P.O. Box 137
Nephi, Utah 84648

Re: Initial Review of Notice of Intention to Commence Large Mining Operations, Nephi Sandstone Corporation, Cedar Springs Mine, M/023/059, Juab County, Utah

Dear Mr. Evans :

The Division has completed a review of your draft Notice of Intention to Commence Large Mining Operations for the Cedar Springs mine, located in Juab County, Utah, which was received March 2, 2000. After reviewing the information, the Division has the following comments which will need to be addressed before tentative approval may be granted. The comments are listed below under the applicable Minerals Rule heading. Please format your response in a similar fashion. Please provide a response to this review by June 30, 2000.

The Division will suspend further review of the mine NOI until your response to this letter is received. If you have any questions in this regard please contact me or Tom Munson of the Minerals Staff. If you wish to arrange a meeting to sit down and discuss this review, please contact us at your earliest convenience. Thank you for your cooperation in completing this permitting action.

Sincerely,

D. Wayne Hedberg
Permit Supervisor
Minerals Regulatory Program

jb
Attachment: Review

REVIEW OF NOTICE OF INTENTION TO COMMENCE LARGE MINING OPERATIONS

Nephi Sandstone Corporation Cedar Springs Mine

**M/023/059
May 17, 2000**

R647-4-105 - Maps, Drawings & Photographs

105.1 Topographic base map, boundaries, pre-act disturbance

Map #1 indicates land ownership of the area of the mine. Who is the landowner of the area to the southwest of the site? Please submit a mine plan showing the mining sequence for a minimum five year period. (DJ)

105.2 Surface facilities map

Please include elevation contours on the surface facilities map. Please identify and label the current disturbance associated with the small mine notice on the surface facilities map. Please include present pit outlines, dump areas and storage areas (soils, overburden and processed material) and areas that will be utilized (disturbed) in the future. (DJ)

Ephemeral drainages associated with the site should be shown on the site map. Are these drainages being blocked by overburden? If so, please provide a plan for rerouting any water from storms events. (DJ)

Please provide a Reclamation Treatments map of the same scale as the surface facility map. Areas of the site to be reclaimed should be cross-hatched or shaded to identify which reclamation treatments will be applied. A key or legend should be added to the map which identifies each type of reclamation treatment(s). Possible reclamation treatments may include: ripping, regrading, replacing soil, fertilizing, mulching, broadcast and/or drill seeding. (DJ)

105.3 Drawings or Cross Sections (slopes, roads, pads, etc.)

Please provide one each of north-south and east-west cross sections of the pit and dump areas. Cross-sections should also include present ground surface, surface after mining, and surface after reclamation. These cross sections should be drawn to a scale of 1" = 500' or larger for calculation purposes. (DJ)

R647-4-106 - Operation Plan

106.2 Type of operations to be conducted, including mining methods/processing methods to be used on site.

Please provide a narrative of the proposed mining operations. Include a description of the specific type and size of equipment that will be used, product and waste stockpiles. (DJ)

106.3 Estimated acreages disturbed and/or reclaimed annually.

Please include a map indicating areas to be disturbed annually. A scaled map should be provided so acreages can be verified. (DJ)

106.4 Nature of materials mined, waste and estimated tonnages

Please provide estimated tonnages of ore and waste that will be mined annually. Describe the nature of the waste material. (DJ)

106.5 Existing soil types, location, amount

While the NOI contained information from the NRCS soil survey for Juab County, unfortunately, it was not for the area of the quarry. The soil survey covers Township 16 South, Range 1 East, not Range 1 West, which is where the quarry is. Please provide the soil survey information from the area where the quarry is located. (LK)

106.6 Plan for protecting & redepositing soils

This section cannot be evaluated until the correct soil survey data is submitted. (LK)

106.7 Existing vegetation - species and amount

Please provide the results of the vegetation survey which identifies the dominant vegetation of the area as well as the percent ground cover (aerial cover) of the vegetation. (LK)

106.9 Location & size of ore, waste, tailings, ponds

Please indicate on a scaled map the present disturbance (pits and overburden piles), also any future areas that will be disturbed by ore removal and waste/overburden deposition. (DJ)

R647-4-107 - Operation Practices

107.1.14 Posting warning signs

Warning signs will need to be posted in the area of the quarry, warning of mine related hazards. (TM)

107.1.15 Constructing berms, fences, etc. above highwalls

We are currently uncertain what highwalls will exist. Therefore, you are required to inform us of what highwall conditions will exist, so we can assess the need for protection. (TM)

107.2 Drainages to minimize damage

The operation will affect natural ephemeral drainages in the area. Therefore a plan needs to be put forth describing the methods by which the storm water drainage will be controlled and rerouted, both during operations and following mining. To what extent will the drainages be filled in and where are these drainages located (show cross-sections). (TM)

107.3 Erosion control & sediment control

Regarding erosion control, please provide a plan for the longterm stability of the site, given its steep topography and potential for erosion from storm water. (TM)

107.4 Deleterious material safety stored or removed

Please provide a plan for the storage of fuels and oils and how any spills will be contained. (TM)

— **107.5 Suitable soils removed & stored**

This section cannot be evaluated until the soil survey data is submitted and reviewed. (LK)

R647-4-109 - Impact Assessment

— **109.2 Impacts to threatened & endangered wildlife/habitat**

The Division of Wildlife Resources in Springville, Utah should be able to provide you with general information regarding wildlife resources and threatened and endangered species within your project area. (LK)

— **109.3 Impacts on existing soils resources**

This section cannot be evaluated until the soil survey data is submitted and reviewed. (LK)

109.4 Slope stability, erosion control, air quality, safety

Describe the impacts this mining will have on slope stability, erosion, air quality, public health and safety. Include descriptions of highwall and slope configurations and their stability. Air quality permits may be required from the Utah State Division of Environmental Quality (Division of Air Quality) for this mining operation. Please reference any appropriate permits or documentation that none are required. (DJ)

109.5 Actions to mitigate any impacts

Describe measures that will be taken to minimize or mitigate impacts to slope stability, erosion, air quality, or public health and safety. (DJ)

R647-4-110 - Reclamation Plan

110.3 Description of facilities to be left (post mining use)

No facilities are proposed to be left after final reclamation. (DJ)

— **110.5 Revegetation planting program**

This section cannot be fully evaluated until the soil survey data is submitted and reviewed. In general, the seed mix, timing of seeding and seeding methods are acceptable. However, the Division encourages you to not harrow in the seed, but leave the surface in a very rough condition. This promotes water retention and vegetation establishment. Because of the potential poor quality of the soils, it may be necessary to add soil amendments such as composted manure to help ensure revegetation success. (LK)

R647-4-111 - Reclamation Practices

111.2 Reclamation of natural channels

Describe how the natural channels will be reclaimed after overburden material is removed.
(DJ)

111.3 Erosion & sediment control

How will longterm site stability related to sediment and erosion control be achieved following reclamation. (TM)

111.12 Topsoil redistribution

This section cannot be evaluated until the soil survey data is submitted and reviewed. (LK)

R647-4-112 - Variance

No variances applied for. (DJ)

R647-4-113 - Surety

A reclamation surety estimate was not provided with this submission. A surety cannot be calculated by the Division until the concerns stated in the review have been addressed. (DJ)